

AMENDMENTS TO THE CLAIMS

Claims 1 - 46 (cancelled)

47. (New) An optical examination device, comprising:
an optical source for emitting light in the visible to infrared range and an optical detector;
an array of optical fibers including end portions freely protruding from a support and
arranged for engaging the scalp or skin of a subject, said optical fibers including proximal ends
arrayed for coupling light between said light source and detector fibers by indexing in space fiber
locations with respect to tissue positions of said end portions engaging the scalp or skin of said
subject; and
a controller constructed and arranged to control operation of said light source and
detector and control introduction and detection of light at said arrayed proximal ends.